

Amendments to the claims,

Listing of all claims pursuant to 37 CFR 1.121(c)

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A system stored on computer memory, which when executed by a processor determines ~~for determining~~ subscribers to which a published item of data is to ~~should be~~ replicated, the system comprising:

an interface module which receives ~~for receiving~~ user input of lists of a plurality of subscribers, each list specifying items of data to be replicated to a given subscriber; wherein said lists include wildcard information and negation information;

a build module which builds ~~for building~~ an index based on the lists of the plurality of subscribers containing entries ~~comprising wildcard information and negation information~~ indicating subscribers for each item of data specified in the lists, at least one entry including a wildcard, and a default list of subscribers for items of data not matching any of the entries; and

a resolution module which receives ~~for receiving~~ a published item of data and determines ~~determining in constant time~~ subscribers to which the published item is to ~~should be~~ replicated based on the index, enabling so that said published item to may be efficiently replicated for display to subscribers for display to users; wherein time for determining subscribers to the published items does not depend on number of subscribers.

2. (Original) The system of claim 1, wherein a subscriber comprises a replicate database.

3. (Original) The system of claim 1, wherein a published item of data comprises an item of data published by a primary database for replication.

4. (Currently amended) The system of claim 1, wherein the lists of the plurality of subscribers include a list having negation information specifying at least one item of data not to be replicated to a particular subscriber.

5. (Original) The system of claim 1, wherein the lists of the plurality of subscribers include a list comprising a negation set indicating that all data other than items specified on the list should be replicated to a particular subscriber.

6. (Original) The system of claim 1, wherein the interface module receives at least one string identifying data to be replicated to a subscriber.

7. (Original) The system of claim 6, wherein the build module builds the index based, at least in part, on said at least one string.

8. (Original) The system of claim 7, wherein the index includes an entry representing a particular item of data and at least one subscriber to which the particular item of data is to be replicated.

9. (Original) The system of claim 1, wherein the build module builds a hash table of entries based on the lists of the plurality of subscribers.

10. (Original) The system of claim 1, wherein the build module generates a bitmap string representing subscribers to which an item of data is to be replicated.

11. (Original) The system of claim 10, wherein the bitmap string includes one bit for each subscriber.

12. (Currently amended) The system of claim 1, wherein the build module builds at least one ~~an~~ entry including a wildcard providing that ~~for indicating~~ all items of data of a certain type are to ~~should~~ be replicated to subscribers of said at least one entry.

13. (Original) The system of claim 1, wherein the build module builds a bitmap string representing the default list of subscribers.

14. (Original) The system of claim 13, wherein the build module adds each subscriber having a list comprising a whole set to the bitmap string representing the default list of subscribers.

15. (Original) The system of claim 13, wherein the build module adds each subscriber having a list comprising a negation set to the bitmap string representing the default list of subscribers.

16. (Original) The system of claim 1, wherein the resolution module generates a hashed value based on at least one string identifying the published item.

17. (Original) The system of claim 16, wherein the resolution module searches for the hashed value in the index.

18. (Currently amended) The system of claim 17, wherein the resolution module determines subscribers to which the published item should be replicated based upon at least one entry in the index including the hashed value when if the hashed value is found in the index.

19. (Currently amended) The system of claim 17, wherein the resolution module determines subscribers to which the published item should be replicated based upon the default list when if the hashed value is not found in the index.

20. (Original) The system of claim 16, wherein the resolution module receives a plurality of strings identifying the published item and substitutes a wildcard for one of the strings to search for matching entries in the index which include a wildcard.

21. (Original) The system of claim 1, wherein the resolution module determines subscribers to which the published item should be replicated based upon the default list of subscribers for published items without matching entries in the index.

22. (Original) The system of claim 1, wherein the build module removes a subscriber from the index in response to a request to remove a subscriber.

23. (Currently amended) A method ~~which determines for determining~~ subscribers to which a published item of data ~~is to should~~ be replicated, the method comprising:

receiving lists of a plurality of subscribers, each list specifying items of data to be replicated to a given subscriber; wherein said lists include wildcard information and negation information;

building an index based on said lists of the plurality of subscribers containing entries ~~comprising wildcard information and negation information indicating~~ identifying subscribers to which each item of data specified in said lists should be replicated, at least one entry including a wildcard, and a default list ~~identifying for indicating~~ subscribers to published items of data not matching any of the index entries;

given a published item of data, determining in constant time whether the published item matches at least one entry in the index;

if the published item matches at least one entry, generating a set of subscribers to which the published item ~~is to should~~ be replicated based on the subscribers associated with said at least one entry; and

otherwise, returning the default list of subscribers to which the published item is to should be replicated.

24. (Original) The method of claim 23, wherein a subscriber comprises a replicate database.

25. (Original) The method of claim 23, wherein a published item of data comprises an item of data published by a primary database for replication.

26. (Original) The method of claim 23, wherein said receiving step includes specifying items of data not to be replicated to a subscriber.

27. (Original) The method of claim 23, wherein said receiving step includes

receiving a list comprising a negation set indicating that all data other than items specified on the list should be replicated to a subscriber.

28. (Original) The method of claim 23, wherein said receiving step includes receiving at least one string identifying data to be replicated to a subscriber.

29. (Original) The method of claim 28, wherein said building step includes building a hash table based on said at least one string.

30. (Original) The method of claim 29, wherein said step of building a hash table includes building a bitmap string for each entry representing subscribers to an item of data.

31. (Original) The method of claim 23, wherein said building step includes building a hash table of entries.

32. (Original) The method of claim 23, wherein said building step includes generating a bitmap string representing subscribers to an item of data.

33. (Original) The method of claim 32, wherein said step of generating a bitmap string includes generating a bitmap string having one bit for each subscriber.

34. (Currently amended) The method of claim 32, wherein said step of generating a bitmap string includes removing a subscriber from the bitmap string representing subscribers to an item of data when ~~if~~ the subscriber has specified the item of data as an excluded item in a negation set.

35. (Currently amended) The method of claim 23, wherein said building step includes building a bitmap string ~~for~~ representing the default list of subscribers.

36. (Original) The method of claim 35, wherein said step of building a bitmap

string for representing the default list of subscribers includes adding each subscriber having a list comprising a whole set.

37. (Currently amended) The method of claim 35, wherein said step of building a bitmap string ~~for~~ representing the default list of subscribers includes adding each subscriber having a list comprising a negation set.

38. (Currently amended) The method of claim 23, wherein said building step includes building at least one entry ~~entries~~ including a wildcard ~~for~~ indicating all items of data of a certain type should be replicated to a subscriber.

39. (Previously presented) The method of claim 38, wherein said determining step includes receiving a plurality of strings identifying the published item and substituting a wildcard for one of the strings to search for matching entries in the index which include a wildcard.

40. (Previously presented) The method of claim 23, wherein said determining step includes generating a hashed value based on at least one string identifying the published item.

41. (Previously presented) The method of claim 40, wherein said determining step includes searching for the hashed value in the index.

42. (Original) The method of claim 23, wherein said determining step includes building a list of subscribers based upon a plurality of matching entries.

43. (Currently amended) A computer-readable medium having processor-executable instructions which perform ~~for performing~~ the method of claim 23.

44. (Canceled)